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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,420	04/20/2004	Scott Dewey	GP-303953	5380
65798 MILLER IP GR	7590 03/04/200 ROUP, PLC	EXAMINER		
GENERAL MOTORS CORPORATION			KARLSEN, ERNEST F	
42690 WOODWARD AVENUE SUITE 200		ART UNIT	PAPER NUMBER	
BLOOMFIELD HILLS, MI 48304			2829	
			MAIL DATE	DELIVERY MODE
			03/04/2008	PAPER

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/828,420	DEWEY ET AL.					
Office Action Summary	Examiner	Art Unit					
	Ernest F. Karlsen	2829					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on <u>21 Ja</u>	anuary 2008						
	action is non-final.						
<u>/</u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.	4) X Claim(s) 1-19 is/are pending in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-19</u> is/are rejected.	· · · · · · · · · · · · · · · · · · ·						
7) Claim(s) is/are objected to.							
· · · · · · · · · · · · · · · · · · ·	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
, , ,							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
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Attachment(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.							
3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application  6) Other:							
Paper No(s)/Mail Date 6) Other:							

The Final Rejection of August 23, 2007 is withdrawn.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burns et al in view of Kurokami et al.

Burns et al show a ground fault sensing apparatus wherein differential current in a two wire supply is sensed with a magnetic core 30 having a Hall sensor 32 located in a gap of the core 30. The abstract and other locations of Burns et al indicate that AC or DC signals may be sensed. Burns et al do not indicate that their device can be used with a fuel cell. Kurokami et al teach that a ground fault detector may be used with any of plural power source types including an inverter, a battery, a solar power generation apparatus or a fuel cell. See column 2 lines 24-30 of Kurokami et al. It would have been obvious to one of ordinary skill in the art a the time of the invention to have used the apparatus of Burns et al to sense ground fault conditions in a fuel cell powered system because such is suggested by Kurokami et al. It is further considered obvious by the Examiner, with or without the teaching of Kurokami et al, to have used the apparatus of Burns et al to sense ground faults in a system regardless of the kind of power source used. The function of Burns et al is the same when using a fuel cell as a power source as it would be using a lead acid battery as a power source. Amplifiers as

claimed in claims 2 and 12 can be used anywhere it is desired to change the level of a signal. Figure 5 of Burns et al shows a toroid core 78.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ernest F. Karlsen whose telephone number is 571-272-1961. The examiner can normally be reached on 8 hrs. Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ha Nguyen can be reached on 571-272-1678. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ernest F. Karlsen/ Primary Examiner, Art Unit 2829